Package ‘simplecolors’

October 14, 2022

Title  Access Color Names Using a Standardized Nomenclature
Version  0.1.1
Description  A curated set of colors that are called using
  a standardized syntax: saturation + hue + lightness. For example,
  "brightblue4" and "mutedred2". Functions exists to return individual colors
  by name or to build palettes across or within hues. Most functions allow you
  to visualize the palettes in addition to returning the desired hex codes.
Depends  R (>= 3.1.0)
Imports  colorspace, dplyr, forcats, ggplot2, magrittr, stats, stringr
Suggests  knitr, rmarkdown, testthat, covr, devtools, spelling
License  GNU General Public License
URL  https://github.com/rjake/simplecolors
BugReports  https://github.com/rjake/simplecolors/issues
Language  en-US
LazyData  true
VignetteBuilder  knitr
RoxygenNote  7.1.0.9000
Encoding  UTF-8
NeedsCompilation  no
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Repository  CRAN
Date/Publication  2020-10-27 15:40:02 UTC

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This is a list of simplified color names

Usage
color_table

Format
A data frame with 200 observations and 15 variables

H360 hue on a 0-360 scale
L1 lightness on a 0-1 scale
S1 saturation on a 0-1 scale
light the light value used in the package, 0-7
color the base color name (hue), red, cyan, etc.
letter the first letter of the color, for building palettes
sat the saturation value used in the package, "bright", "muted", "dull", or blank ""
color_sat the color + the saturation, ex: "brightblue", "dullred"
color_name the final unique name: color_sat + lightness, ex: "brightblue2", "mutedorange3"
H1 hue on a 0-1 scale
hex the hex code of the color
R the red of the RGB value
G the green of the RGB value
B the blue of the RGB value
H255 for convenience as some HLS selection tools use a 0-255 scale
sc

Specify color(s) by name

Description
Specify color(s) by name

Usage
sc(...)

Arguments

... the unique color names used in the package, ex: "brightred5", "grey4", "dull-blue2"

Examples
sc("violet4", "brightteal3")

sc_across
Generates a palette within across hues

Description
Generates a palette within across hues

Usage
sc_across(palette = "ROYGTBVPgy", light = 3, sat = "", return = NULL)

Arguments

palette the first letter of each hue to include
light the lightness value to hold constant (1:7)
sat the saturation value to hold constant ("bright", "muted", "dull", ")
return defaults to returning hex codes but can also return a table or plot of the generated palette

See Also
Other palettes: sc_within()
**Examples**

```
sc_across(palette = "B0")
sc_across(palette = "B0", sat = "bright", return = "table")
sc_across(palette = "B0", sat = "bright", return = "plot")
sc_across(palette = "RBTVPGy", light = 4, return = "plot")
```

**sc_within**

Generates a palette within 1 hue

**Description**

Generates a palette within 1 hue

**Usage**

```
sc_within(hue, light = c(2:5), sat = "", return = NULL)
sc_red(light = 2:5, sat = "", return = NULL)
sc_orange(light = 2:5, sat = "", return = NULL)
sc_yellow(light = 2:5, sat = "", return = NULL)
sc_green(light = 2:5, sat = "", return = NULL)
sc_teal(light = 2:5, sat = "", return = NULL)
sc_blue(light = 2:5, sat = "", return = NULL)
sc_violet(light = 2:5, sat = "", return = NULL)
sc_pink(light = 2:5, sat = "", return = NULL)
sc_grey(light = 2:5, sat = "", return = NULL)
```

**Arguments**

- **hue** ex: "red", "blue", "violet"
- **light** the lightness of the color, ex: 1:5
- **sat** the saturation of the color, ex: "bright", "muted", "dull" or "" (base)
- **return** defaults to returning hex codes but can also return a table or plot of the generated palette

**See Also**

Other palettes: `sc_across()`
show_colors

Examples

sc_within("violet", 1:3)
sc_within("violet", 1:5, "bright", return = "table")
sc_within("violet", 2:4, c("bright", "muted"), return = "plot")

show_colors  Show all available colors

Description

Plots the color_table values.

Usage

show_colors(labels = FALSE)

Arguments

labels  logical TRUE (default) will plot the color with color names, FALSE will plot the colors only

Value

ggplot

Examples

show_colors()

simplecolors  simplecolors: A package for accessing color names using a standardized nomenclature

Description

The simplecolors package provides two categories of functions: color names and color palettes

Color names

The sc() function is the main way to access color names. Colors can be called by including them as comma separated string values. For example: sc("brightblue4", "mutedred2")

Color palettes

There are several functions that are prefixed with "sc_". These generate palettes of colors and can return hex codes (default), a table, or a plot showing the colors selected.
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